1 **A SYSTEM AND METHOD FOR PERFORMING BLENDING USING AN OVER**

2 **SAMPLING BUFFER**

3

4 Abstract of the Disclosure

5 The present invention provides an alpha blending unit that is able to perform

6 alpha blending on sub-samples of a pixel in an efficient manner. The alpha blending

7 unit preferably comprises a plurality of registers for storing a source color, a blending

8 value, and a plurality of destination sub-sample values, multipliers, adders, an

9 accumulator and a divider. The alpha blending unit advantageously sums the

10 destination sub-sample values and then divides them by the number of sub-samples to

11 generate a combined destination color value. This combined destination color value

12 along with the source color and a blending value are then provided to the multipliers,

13 and adders to generate a new destination color value for the pixel.

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